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Davidson, NC 28036

Point of Manufacture—Davidson, N.C., U.S.A.

### STANDARD SSR QUIET ENCLOSED (125-500 HP) CONSTRUCTION AND SCOPE OF SUPPLY

#### STANDARD EQUIPMENT

Every Ingersoll-Rand SSR Quiet Enclosed Rotary Screw Air Compressor package is complete with the following standard equipment:

#### Inlet Air Filter

Dry type 99.5% efficient 3 micron and above.

#### Airend

Asymmetrical, precision, machined-steel rotors, duplex tapered-roller bearings, coolant dams.

#### Main Drive Motor

460 or 575/3/60 open drip-proof flanged, high-efficiency induction motor.

#### Integral Gear Drive Assembly

AGMA Class 11 gears, optimum speed, permanent alignment. Drive train vibrated isolation from package.

#### Coolant Filtration

Spin-on, 4 micron normal with pressure bypass.

#### Coolant Heat Exchanger

Integrally-mounted air or water cooled. Air maximum 115°F, water maximum 90°F. Solenoid water valve (watercooled).

#### Aftercooler

Integrally-mounted air or water-cooled. Air maximum 115°F, water maximum 90°F.

#### Enclosure

Sheet metal enclosure covering entire unit. Multiple, quick-release, latched panels. See engineering sections for dBA ratings.

#### Thermostatic Coolant Temperature Control Valve

Fast warm-up and proper operating temperature.

#### Separator Element

2-stage molded fiberglass, 2 PPM coolant carryover (downstream of aftercooler), 2-4 PSI nominal  $\Delta P$  when new.

#### Rigid Tubing - Flared Fittings

Seamless steel with flared fittings and flexible connections. SAE "O" Ring type fittings on all connections larger than 1/4". Pipes and fittings are anodized and powder coated/plated for corrosion resistance.

#### Built-In Starter

460 or 575/3/60 Star-Delta. Control voltage transformer included. Protective starting control.

All components mounted in and enclosed cabinet.

#### Capacity Control

Intellisys control (ACS) featuring automatic on-line/off-line with upper range modulation accomplished through our stepper motor inlet control.

#### Electrical Controls

Intellisys® - microprocessor based system.

#### INTELLISYS® READOUTS

#### Display Standards

- Package discharge pressure
- Package discharge temperature
- Total hours/loaded hours
- Airend discharge temperature
- Injection coolant temperature
- Sump pressure
- Inlet air filter condition
- Inlet vacuum
- Coolant filter condition

- Separator element condition
- Modulation % load

#### Adjustable Operating Parameters

- Lead/lag
- Off-line pressure
- On-line pressure
- Star-Delta transition time
- Stop delay time
- Stop delay time

#### Fault Warnings

- Change inlet filter
- Change coolant filter
- Change separator element
- High airend discharge temperature
- High discharge pressure
- Sensor failure 4ATT
- Sensor failure 6 Apt
- High sump/line differential
- Service required
- Communication failure

#### Fault Shutdowns

- High airend discharge temperature
- Low unloaded sump pressure
- Low sump pressure
- Remote start failure
- Remote stop failure
- Starter fault
- Main motor overload
- Fan motor overload
- Reverse rotation
- Inlet control/control system
- Sensor failure
- Control power loss
- Low coolant pressure

#### Coolant

SSR is factory filled with Ingersoll Rand Premium Compressor Coolant; a PAG advanced synthetic lubricant, providing better cooling characteristics, reduced wear through improved lubrication, and has a longer operating life than other synthetic lubricants.

#### Protective controls

- Air pressure relief valve
- Minimum pressure / check valve
- High temperature shutdown